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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,890	02/27/2002	Narayanan Venkitaraman	CM05034H	2114
22917	7590	01/12/2004	EXAMINER	
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196			HARPER, KEVIN C	
			ART UNIT	PAPER NUMBER
			2666	

DATE MAILED: 01/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/083,890

Applicant(s)

VENKITARAMAN ET AL.

Examiner

Kevin C. Harper

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

***Response to Arguments***

Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection. The indicated allowability of claims 2-3, 6-13 and 15-23 is withdrawn in view of the newly discovered reference(s) to Johnson et al. (US 6,625,135). Rejections based on the newly cited reference(s) follow.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 and 14-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

1. Independent claims 1 and 14 recite a first entry mapping an address of the mobile network node to a mobile network prefix. However, a first entry (Figure 6) maps a mobile network node to a care of address (3080:7C:1:1::MN mapped to 3080:7C:1:1::MR; specification, page 13, lines 9-11).

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10 and 14-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Johnson et al. (US 6,625,135)

2. Regarding claims 1-4 and 14-20, Johnson discloses a method for use in a packet network system comprising a correspondent node and a mobile network node (Figure 1). The correspondent node having an inherent processor sends a packet to the mobile network node causing the correspondent node to receive binding information (col. 16, lines 41-45 and 51-54) which includes a first entry (col. 16, lines 41-45) indicating an association between the mobile network node and a mobile network and a second entry (col. 16, lines 51-54) indicating a proxy address associated with the mobile network. The method comprises storing the entries and using the entries to determine that a packet for a mobile network node is directed to a mobile network reachable by a proxy address (col. 17, lines 4-7 and 10-17). The first entry maps an address of the mobile network node to a mobile network prefix (col. 16, lines 41-45; note: the mobile network prefix is part of the IP address of the mobile router - col. 4, lines 11-30) and the second entry maps the mobile network prefix to a care of address (col. 16, lines 51-54; note: the care of address of the mobile router). Further regarding claims 16-20, in Johnson the binding updates are sent to a home agent (col. 16, lines 41-45).

3. Regarding claim 5, the mobile network node is a laptop (Figure 12, item 76; col. 17, lines 19-25).

4. Regarding claims 6-10, the binding cache of the correspondent node is updated when the mobile network node moves to a new location or network (col. 6, line 62 through col. 7, line 2; col. 7, lines 29-31; col. 16, lines 21-25) and the proxy address of the mobile network node is updated when the mobile network moves to a new location or network (col. 16, lines 19-21; col. 17, lines 42-45).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 11-13 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al. (US 6,625,135) in view of Malki et al. (US 2001/0046223).

5. Regarding claims 11, 13 and 21-23, Johnson discloses a correspondent node (Figure 12, item 80) receiving a first address identifier and a second identifier (col. 16, lines 41-45 and 51-54). The method of Johnson comprises forming a routing header using the first identifier and a home address of the mobile network node (col. 16, lines 25-27 and col. 17, lines 21-26; note: the first identifier is the address of the mobile router 78 which is used to encapsulate a packet addressed to the laptop 76). The method also comprises appending the routing header to a packet header having a second identifier as a destination address (col. 17, lines 15-17) and inherently the source address of the correspondent node (col. 17, lines 4-27-28). However, Johnson does not disclose receiving the first identifier from a mobile network node and a second identifier from a mobile router. Malki discloses transmitting binding updates from a device to a correspondent node (para. 50, last nine lines; Figure 10, step 1040). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a mobile network node and a mobile router send identifiers (binding updates) directly to a correspondent node in the invention of Johnson in order to optimize the routing of the packets or to

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maintain an optimized routing as the mobile network node or mobile router changes its accessibility throughout a network.

6. Regarding claim 12, in Johnson the binding cache of the correspondent node is updated when the mobile network node moves to a new location or network (col. 6, line 62 through col. 7, line 2; col. 7, lines 29-31; col. 16, lines 21-25) and the proxy address of the mobile network node is updated when the mobile network moves to a new location or network (col. 16, lines 19-21; col. 17, lines 42-45).

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 703-305-0139. The examiner can normally be reached weekdays, except Wednesday, from 9:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 703-308-5463. The centralized fax number for the Patent Office is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office for TC 2600 at 703-306-0377.

Kevin C. Harper



January 4, 2004



DANISTON  
PATENT EXAMINER